THE INVENTOR CLAIMS:

- 1. A tube assembly for specimen analysis, comprising:
- a tube having a pipette portion extending from a lower end portion thereof, said pipette portion having a passage
- 4 therethrough, and
 - a separator having an upper portion sealingly engaged in a lower portion of the tube, said tube having a reduced lower portion defining a passage, whereby upon the filling of the tube to a predetermined level and the centrifuging thereof, centrifuged liquid passes through said separator passage to provide a specimen of predetermined volume defined below the separator and above a lower end of said reduced lower separator portion.

2. A tube assembly according to Claim 1, wherein:

said separator has a generally funnel configuration, and an air pocket is defined between the tube, the separator upper portion and an end of the reduced lower separator portion.

3. A tube assembly according to Claim 2, wherein a predetermined volume of specimen to be expressed is defined by said air pocket.

4. A tube assembly according to Claim 3, wherein the predetermined volume of specimen comprises 0.1 ml.

5. A tube assembly according to Claim 1, wherein said separator is sealingly engaged by force-fitting thereof in a tapered portion of the tube.

6. A tube assembly according to Claim 1, wherein:

- 2 specimen liquid and sediment are automatically mixed during centrifuging by operation of the separator and an air pocket
- 4 created thereby.

7. A tube assembly according to Claim 1, wherein said tube is tapered to narrow toward its lower portion and said separator is force-fitted in a lower portion of the tube.

8. A tube assembly according to Claim 1, wherein a bead is disposed about an upper open end of the tube for sealing engagement with a cap to close the tube.

9. A tube assembly according to Claim 1, wherein said tube pipette portion passage is tapered inwardly toward its opening.

- 10. A tube assembly according to Claim 1, and further2 comprising:
 - a plug for sealing engagement in said pipette passage,
- said plug being disposed in a cup adapted to engage a lower portion of the tube when the plug is inserted in said pipette passage.

11. A tube assembly according to Claim 10, wherein:

upon removal of said plug from the pipette passage, a limited lowering of pressure within the tube tends to retain liquid from dropping through the pipette passage.

- 12. A tube assembly for specimen analysis, comprising:
- a tube having a pipette portion extending from a lower end portion thereof, said pipette portion having a passage therethrough,
 - a plug for sealing engagement in said pipette passage,
 - a cap for sealingly closing an upper open end portion of the tube, and
 - a separator having an upper portion sealingly engaged in the tube, said tube having a reduced lower portion defining a passage, whereby upon the filling of the tube to a predetermined level and the centrifuging thereof, centrifuged liquid passes through said separator passage to provide a specimen of predetermined volume defined below the separator and above a lower end of the reduced lower separator portion for expressing thereof upon removal of said plug.

13. A tube assembly according to Claim 12, wherein:

said separator has a generally funnel configuration, and an air pocket is defined between the tube, the separator upper portion and an end of the reduced lower separator portion.

14. A tube assembly according to Claim 12, wherein said predetermined volume of specimen comprises 0.1 ml.

- 15. A tube assembly according to Claim 13, wherein:
- specimen liquid and sediment are automatically mixed during centrifuging by operation of the separator and an air pocket created thereby.

16. A tube assembly according to Claim 12, wherein said
tube is tapered to narrow toward its lower portion and said
separator is force-fitted in a lower portion of the tube.

17. A tube assembly according to Claim 12, wherein a bead is disposed about an upper open end of the tube for sealing engagement with said cap.

18. A tube assembly according to Claim 12, wherein said plug is disposed in a cup adapted to engage a lower portion of the tube when the plug is inserted in said pipette passage.

19. A tube assembly according to Claim 18, wherein:

upon removal of said plug from the pipette passage, a limited lowering of pressure within the tube tends to retain liquid from dropping through the pipette passage.

- 20. A tube assembly according to Claim 1, and further comprising:
- a plug adapted to seat about said pipette passage to seal the passage,
- a spring disposed between the plug and the separator to urge the plug to close the pipette passage, and
- a pin on said plug and extending through and outwardly from the pipette passage,
- whereby a specimen is dispensed by urging said pin against lo a specimen holder to displace the plug against the urging of the spring.

21. A tube assembly according to Claim 20, wherein said spring is an helical tapered spring.

22. A tube assembly according to Claim 20, wherein said plug is of at least partially spherical configuration.

23. A tube assembly according to Claim 20, wherein said pin extends to an upper end of the pipette passage to facilitate passage of specimen through the passage.

- 24. A tube assembly according to Claim 1, wherein:
- said separator has a lower portion of reduced diameter defining a passage therethrough, and
- said separator is of generally hemispherical configuration to adapt the separator to receive a generally hemispherical probe of an apparatus for the drawing of specimen via a passage through the probe for automatic processing.

25. A tube assembly according to Claim 24, wherein:

an upper edge portion of said generally hemispherical separator is tapered to a reduced thin edge portion to engage an inner wall of the tube to prevent specimen sediment from entering between the separator and the tube wall.